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L1	2	yiming near2 white	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/20 07:39
L2	5	visual and image and sinal and transmitting and pattern and communication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/20 08:24
L3	2586	visual near communication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/20 08:15
L4	1642	l3 and @ad <= "20000816"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/20 08:17
L5	30	l4 and (adjust\$4 near2 automatically)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/20 08:17
L6	12	l5 and pattern	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/20 08:18
L7	0	(pattern near rcognition) adj4 communication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/20 08:25
L8	0	(pattern near rcognition) adj7 communication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/20 08:26
L9	0	(pattern near3 rcognition) adj7 communication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/20 08:26

L10	3	(pattern near3 rcognition) and communication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/20 08:26
S1	0	visual and image and sinal and (transmitting near device) and (signal near pattern) and recording and communication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/01/02 09:27
S2	3	visual and image and sinal and transmitting and pattern and recording and communication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/01/02 10:04
S3	1	("5613070").PN.	USPAT; USOCR	OR	OFF	2003/01/02 10:01
S4	1	("5369755").PN.	USPAT; USOCR	OR	OFF	2003/01/02 10:01
S5	4	visual and image and sinal and transmitting and pattern and communication	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2003/01/02 10:04
S6	0	(communication near system) and transmit\$4 and displaying and (signal near controller) and (controlling near position) and visual and camera and automatically	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/21 12:06
S7	19	transmit\$4 and displaying and (signal near controller) and (controlling near position) and visual and camera and automatically	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/21 12:16
S8	0	remotl\$4 and transmit\$4 and displaying and camera and automatically	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/21 12:19
S9	6119	remot\$4 and transmit\$4 and displaying and camera and automatically	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/21 14:46
S10	70	( remot\$4 and transmit\$4 and displaying and camera and automatically) and controlling and (visual near record\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/21 12:24

S11	23	(( remot\$4 and transmit\$4 and displaying and camera and automatically) and controlling and (visual near record\$3)) and sending and receiving	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/21 12:25
S12	0	remot\$4 and transmit\$4 and bolb\$3 and pixel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/21 14:46
S13	290	remot\$4 and transmit\$4 and blob\$3 and pixel	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/21 14:47
S14	30	( remot\$4 and transmit\$4 and blob\$3 and pixel) and pixels and (visual near pattern)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/01/21 14:48
S15	376	(signal near3 pattern) and transmit\$4 and recording and bi-directional	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/25 07:41
S16	20	S15 and detector and (image adj pattern)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/25 07:42
S17	17	S16 and @ad <= "20000816"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/20 08:15



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B. S. Y. Rao, H. F. Durrant-Whyte, J. A.



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1 [The environment understanding interface: detecting and tracking human activity through multimedia sensors](#)

Steven G. Goodridge

November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research**Full text available: [pdf\(243.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A technique for using economical multimedia sensors to autonomously track human beings is presented. A sequence of color images captured from a video camera is processed in real-time to determine target locations. This data may be used to guide a computer-controlled pantilt-zoom camera, and may be fused with sound information to determine the location of a person speaking. Such capabilities are the foundation of what we call the *Environment Understanding Interface*, a new paradigm for huma ...

2 [Hybrid pattern recognition system capable of self-modification](#)

Charles W. Glover, Nageswara S. V. Rao, E. M. Oblow

December 1993 **Proceedings of the second international conference on Information and knowledge management**Full text available: [pdf\(555.14 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

3 [Multiple-precision arithmetic and the exact calculation of the 3-j and 9-j symbols](#)

Robert M. Baer, Martin G. Redlich

November 1964 **Communications of the ACM**, Volume 7 Issue 11Full text available: [pdf\(304.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Described in this paper is a system of general-purpose multiple-precision fixed-point routines and their use in subroutines which calculate exactly the quantum-mechanical 3-j, 6-j and 9-j symbols of large arguments.

4 [On J-maximal and J-minimal Flow-Shop Schedules](#)

Francis Y. Chin, Long-Lieh Tsai

July 1981 **Journal of the ACM (JACM)**, Volume 28 Issue 3Full text available: [pdf\(784.60 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

5

[Results on k-sets and j-facets via continuous motion](#)

Artur Andrzejak, Boris Aronov, Sarel Har-Peled, Raimund Seidel, Emo Welzl  
 June 1998 **Proceedings of the fourteenth annual symposium on Computational geometry**

Full text available:  [pdf\(895.20 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 6 J+=J

Michael Wolfe


July 1994 **ACM SIGPLAN Notices**, Volume 29 Issue 7

Full text available:  [pdf\(193.96 KB\)](#) Additional Information: [full citation](#), [index terms](#)

## 7 Programming in J/Windows

Chris Burke

August 1994 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL : the language and its applications: the language and its applications**, Volume 25 Issue 1

Full text available:  [pdf\(558.12 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

J has been available as shareware for the last four years. The core language has been largely complete from outset, but it is only comparatively recently that the implementation (at least for the PC) has included features needed for serious application development. The most significant change was the introduction of Windows support in release 6, which for the first time allowed full screen applications to be written in J. Following the release of 6.2, which included many additions ...

## 8 Confessions of two APL educators learning J

Murray Eisenberg, Howard A. Peelle

September 1993 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 24 Issue 1


Full text available:  [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper reports how we, two university teachers of APL, began to learn J. By presenting accounts of a series of small experiments, it reveals our understandings and misunderstandings along the way. It discusses things we especially liked and disliked about J as well as the resources available for learning it, and it indicates some implications of our experience for teaching J.

## 9 The J-machine multicomputer: an architectural evaluation

Michael D. Noakes, Deborah A. Wallach, William J. Dally

May 1993 **ACM SIGARCH Computer Architecture News , Proceedings of the 20th annual international symposium on Computer architecture**, Volume 21 Issue 2

Full text available:  [pdf\(1.33 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


The MIT J-Machine multicomputer has been constructed to study the role of a set of primitive mechanisms in providing efficient support for parallel computing. Each J-Machine node consists of an integrated multicomputer component, the Message-Driven Processor (MDP), and 1 MByte of DRAM. The MDP provides mechanisms to support efficient communication, synchronization, and naming. A 512 node J-Machine is operational and is due to be expanded to 1024 nodes in March 1993. In this paper we discuss ...

## 10 The role of APL and J in high-performance computation

Robert Bernecky

September 1993 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL**, Volume 24 Issue 1

Additional Information:


Full text available:  [pdf\(1.62 MB\)](#)[full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although multicomputers are becoming feasible for solving large problems, they are difficult to program: Extraction of parallelism from scalar languages is possible, but limited. Parallelism in algorithm design is difficult for those who think in von Neumann terms. Portability of programs and programming skills can only be achieved by hiding the underlying machine architecture from the user, yet this may impact performance on a specific host. APL, J, and other applicative array languages with ade ...

#### 11 [Evaluation of mechanisms for fine-grained parallel programs in the J-machine and the CM-5](#)

Ellen Spertus, Seth Copen Goldstein, Klaus Erik Schauser, Thorsten von Eicken, David E. Culler, William J. Dally

May 1993 **ACM SIGARCH Computer Architecture News , Proceedings of the 20th annual international symposium on Computer architecture**, Volume 21 Issue 2

Full text available:  [pdf\(1.44 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper uses an abstract machine approach to compare the mechanisms of two parallel machines: the J-Machine and the CM-5. High-level parallel programs are translated by a single optimizing compiler to a fine-grained abstract parallel machine, TAM. A final compilation step is unique to each machine and optimizes for specifics of the architecture. By determining the cost of the primitives and weighting them by their dynamic frequency in parallel programs, we quantify the effectiveness of t ...

#### 12 [Mastering J](#)

Donald B. McIntyre

July 1991 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL '91**, Volume 21 Issue 4

Full text available:  [pdf\(798.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

J is a new dialect of APL that provides much additional power over earlier dialects, and also provides a challenge to the user to master this new power. This paper discusses some of the problems the author encountered in learning J, and how they were overcome.

#### 13 [Algorithm 261: 9-J symbols](#)

J. H. Gunn

August 1965 **Communications of the ACM**, Volume 8 Issue 8

Full text available:  [pdf\(192.84 KB\)](#)

Additional Information: [full citation](#), [index terms](#)

#### 14 [Algorithm 260: 6-J symbols](#)

J. H. Gunn

August 1965 **Communications of the ACM**, Volume 8 Issue 8

Full text available:  [pdf\(192.84 KB\)](#)

Additional Information: [full citation](#), [index terms](#)

#### 15 [With J for TeX](#)

Cliff Reiter

June 2001 **ACM SIGAPL APL Quote Quad**, Volume 31 Issue 4

Full text available:  [pdf\(176.45 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Last summer I asked the Jforum for advice regarding the conversion of J text to a format suitable for placing J expressions and session logs into TeX word processing documents. There were a couple dozen follow-up posts to the Jforum and I received many private e-mail messages. There have been independent threads regarding TeX in comp.lang.apl too. I was quite surprised by the high level of interest and impressed by the number of

sophisticated comments. I also enjoyed a few good laughs. This note ...

16 Infinity arithmetic, comparisons and J

Harvey Davies

June 1995 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on Applied programming languages**, Volume 25 Issue 4

Full text available:  pdf(637.84 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The principles of infinity arithmetic are explained. There is a need to bring J arithmetic and comparisons into line with these principles. Many of the results produced by J are mathematically anomalous and do not comply with the IEEE 754 Standard for floating-point arithmetic. Some proposals to generalise the concept of comparison tolerance are presented. There are also some tentative proposals regarding safety levels and precision. The paper is oriented ...

**Keywords:** IEEE 754 Standard, NaN, arithmetic, comparative, comparison, error-trapping, indeterminate, infinity, infinity arithmetic, limits, precision, tolerance

17 Untying the Gordian knot: agreement in J

Martin Neitzel

June 1995 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on Applied programming languages**, Volume 25 Issue 4

Full text available:  pdf(718.19 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The "Dictionary of J" is not written for the faint of heart. Its numerous self-references make it very difficult to tackle. The author thinks that section II.B, "Verbs", is one of the keys for getting a confident grip of the language. This paper basically just repeats this section using a tutorial style, some historical background, and several pictures. Hopefully, it will enable people with analytical minds to find their own way through the Dictionary. It closes with ...

**Keywords:** J, agreement, array processing, cells, execution model, rank

18 Teaching J as a computer notation for secondary mathematics

Howard A. Peelle

December 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the conference on APL '99 : On track to the 21st century: On track to the 21st century**, Volume 29 Issue 2

Full text available:  pdf(532.49 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article summarizes a teacher-education course which introduces J as a computer notation well-suited for teaching secondary mathematics. This one-semester course is designed as a series of workshops with accompanying discussions. The first workshop is described here in detail; the others are sketched. Teachers' experiences and reactions to using J are reported informally throughout.

19 Using J as expository language in the teaching of computer science to liberal arts students

John E. Howland

June 1996 **ACM SIGAPL APL Quote Quad , Proceedings of the conference on Designing the future**, Volume 26 Issue 4

Full text available:  pdf(711.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

APL and J are seldom, if ever, used in the teaching of college or university courses. Recently, the author has developed a new laboratory based computer science course for liberal arts students in which students are introduced to 13 core computer science topics. Programming language is used in an expository fashion to describe each topic by building simple working models of each topic. These models are then used as the basis of laboratory experiments in a co-requisite laboratory course. Students ...

**20** Hyper/J: multi-dimensional separation of concerns for Java

Harold Ossher, Peri Tarr

June 2000 **Proceedings of the 22nd international conference on Software engineering**Full text available: [pdf \(74.19 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Hyper/J™ supports flexible, multi-dimensional separation of concerns for Java™ software. This demonstration shows how to use Hyper/J in some important development and evolution scenarios, emphasizing the software engineering benefits it provides.

**Keywords:** Hyper/J, composition, decomposition, multi-dimensional separation of concerns, separation of concerns

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S. Rooney

April 1997 **ACM SIGCOMM Computer Communication Review**, Volume 27 Issue 2Full text available: [pdf\(1.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

New techniques in the implementation of out-of-band control in ATM networks are causing both industry and research laboratories to look again at the whole question of ATM signalling. These techniques devolve the control from the network devices into a higher level distributed processing environment, resulting in simpler network devices and more flexible control architectures. This paper takes this idea one stage further and suggests that at least in some cases, the only place in which control can ...

**162** [RFC2083: PNG \(Portable Network Graphics\) Specification Version 1.0](#)

T. Boutell

March 1997 rfc, RFC Editor

Additional Information: [full citation](#)

This document describes PNG (Portable Network Graphics), an extensible file format for the lossless, portable, well-compressed storage of raster images. PNG provides a patent-free replacement for GIF and can also replace many common uses of TIFF. Indexed-color, grayscale, and truecolor images are supported, plus an optional alpha channel. Sample depths range from 1 to 16 bits.

**163** [Enhancing network services through multimedia data analysers](#)

Ferdinando Samaria, Harold Syfrig, Alan Jones, Andy Hopper

February 1997 **Proceedings of the fourth ACM international conference on Multimedia**Full text available: [pdf\(911.74 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** ATM network services, data analysers, distributed multimedia**164** [MVIEWES: multimodal tools for the video analyst](#)

Adam Cheyer, Luc Julia


January 1997 **Proceedings of the 3rd international conference on Intelligent user interfaces**Full text available: [pdf\(1.06 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** agent architecture, image processing and object tracking, multimodal pen and

voice user interfaces, video analysis and annotation

**165** Interface design based on standardized task models

Larry Birnbaum, Ray Bareiss, Tom Hinrichs, Christopher Johnson

January 1997 **Proceedings of the 3rd international conference on Intelligent user interfaces**

Full text available:  [pdf\(1.13 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** model-based interface design tools, task analysis

**166** Level II technical support in a distributed computing environment

Tim Leehane

September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**

Full text available:  [pdf\(5.73 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

**167** Wake Geometry Measurements and Analytical Calculations on a Small-Scale Rotor Model

Ghee Terence A., Berry John D., Zori Laith A. J.

August 1996 Technical Report, NASA Langley Technical Report Server

Full text available:  [pdf\(2.17 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

An experimental investigation was conducted in the Langley 14- by 22-Foot Subsonic Tunnel to quantify the rotor wake behind a scale model helicopter rotor in forward level flight at one thrust level. The rotor system in this test consisted of a four-bladed fully articulated hub with blades of rectangular planform and an NACA 0012 airfoil section. A laser light sheet, seeded with propylene glycol smoke, was used to visualize the vortex geometry in the flow in planes parallel and perpendicular to ...

**168** Computerized performance monitors as multidimensional systems: derivation and application

Rebecca A. Grant, Chris A. Higgins

April 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 2

Full text available:  [pdf\(1.73 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)


An increasing number of companies are introducing computer technology into more aspects of work. Effective use of information systems to support office and service work can improve staff productivity, broaden a company's market, or dramatically change its business. It can also increase the extent to which work is computer mediated and thus within the reach of software known as Computerized Performance Monitoring and Control Systems (CPMCSs). Virtually all research has studied CPMCSs as unid ...

**Keywords:** computerized performance evaluation, computerized work monitoring, work monitoring system design

**169** Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Full text available:  [pdf\(2.54 MB\)](#)

Additional Information: [full citation](#)

170 Expose Yourself to the Web: The Web, a camera, and a million people watching

Larry Gilbert

January 1996 **Linux Journal**

Full text available:  [html\(9.89 KB\)](#) Additional Information: [full citation](#), [index terms](#)



171 RFC1889: RTP: A Transport Protocol for Real-Time Applications

Audio-Video Transport Working Group, H. Schulzrinne, S. Casner, R. Frederick, V. Jacobson  
January 1996 rfc, RFC Editor

Additional Information: [full citation](#)




This memorandum describes RTP, the real-time transport protocol. RTP provides end-to-end network transport functions suitable for applications transmitting real-time data, such as audio, video or simulation data, over multicast or unicast network services. RTP does not address resource reservation and does not guarantee quality-of- service for real-time services. The data transport is augmented by a control protocol (RTCP) to allow monitoring of the data delivery in a manner sca ...

172 The environment understanding interface: detecting and tracking human activity through multimedia sensors

Steven G. Goodridge

November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(243.03 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)




A technique for using economical multimedia sensors to autonomously track human beings is presented. A sequence of color images captured from a video camera is processed in real-time to determine target locations. This data may be used to guide a computer-controlled pantilt-zoom camera, and may be fused with sound information to determine the location of a person speaking. Such capabilities are the foundation of what we call the *Environment Understanding Interface*, a new paradigm for huma ...

173 Windows of opportunity in electronic classrooms

Ben Shneiderman, Maryann Alavi, Kent Norman, Ellen Yu Borkowski

November 1995 **Communications of the ACM**, Volume 38 Issue 11

Full text available:  [pdf\(321.09 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Paradigm-shifting landmark buildings are cherished by their occupants and remembered because they reshape our expectations of schools, homes, or offices. Classic examples include Thomas Jefferson's communal design of the "academical village" at the University of Virginia where faculty and students lived close to classrooms, Frank Lloyd Wright's organic harmony with nature in Fallingwater (in western Pennsylvania) where the waterfall sounds and leafy surroundings offered a stress ...

174 Applying cryptographic techniques to problems in media space security

Ian E. Smith, Scott E. Hudson, Elizabeth D. Mynatt, John R. Selbie

August 1995 **Proceedings of conference on Organizational computing systems**

Full text available:  [pdf\(967.50 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Media spaces integrate audio, video, and computing systems for the purpose of remote collaboration and awareness, frequently between people engaged in a cooperative task. Technological advances have made these systems feasible using desktop computers and broadband, digital networks. Using a media space over a shared network requires that numerous security and privacy issues be addressed. One advantage of digital media spaces is that properties of the media space can be manipulated so that u ...

175 Structural Analysis and Testing of an Erectable Truss for Precision

Collins Timothy J., Fichter W. B., Adams Richard R., Javeed Mehzad  
July 1995 Technical Report, NASA Langley Technical Report Server

Full text available:  [pdf\(559.96 KB\)](#) Additional Information: [full citation](#), [abstract](#)

This paper describes analysis and test results obtained at Langley Research Center (LaRC) on a doubly curved test-bed support truss for precision reflector applications. Descriptions of test procedures and experimental results that expand upon previous investigations are presented. A brief description of the truss is given, and finite-element-analysis models are described. Static-load and vibration test procedures are discussed, and experimental results are shown to be repeatable and in general ...



**176** Exploratory Flow Visualization Investigation of Mast-Mounted Sights in Presence of a Rotor

Ghee T. A., Kelley H. L.

March 1995 Technical Report, NASA Langley Technical Report Server

Full text available:  [pdf\(660.75 KB\)](#) Additional Information: [full citation](#), [abstract](#)

A flow visualization investigation with a laser light sheet system was conducted on a 27-percent-scale AH-64 attack helicopter model fitted with two mast-mounted sights in the Langley 14- by 22-Foot Subsonic Tunnel. The investigation was conducted to identify aerodynamic phenomena that may have contributed to adverse vibration encountered during full-scale flight of the AH-64D Apache/Longbow helicopter with an asymmetric mast-mounted sight. Symmetric and asymmetric mast-mounted sights oriented a ...



**177** Multicast security and its extension to a mobile environment

Li Gong, Nachum Shacham

March 1995 **Wireless Networks**, Volume 1 Issue 3

Full text available:  [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Multicast is rapidly becoming an important mode of communication and a good platform for building group-oriented services. To be used for trusted communication, however, current multicast schemes must be supplemented by mechanisms for protecting traffic, controlling participation, and restricting access of unauthorized users to data exchanged by the participants. In this paper, we consider fundamental security issues in building a trusted multicast facility. We discuss techniques for group- ...



**178** An intuitive and efficient access interface to real-time incoming video based on automatic indexing

Yukinobu Taniguchi, Akihito Akutsu, Yoshinobu Tonomura, Hiroshi Hamada

January 1995 **Proceedings of the third ACM international conference on Multimedia**

Full text available:  [htm\(40.62 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** browsing, content-based video indexing, grazing, real-time incoming video, user interfaces



**179** A video parsing, indexing and retrieval system

H. J. Zhang, J. H. Wu, C. Y. Low, S. W. Smoliar

January 1995 **Proceedings of the third ACM international conference on Multimedia**

Full text available:  [htm\(9.01 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**180** VRML-based WWW interface to MPI Video

Arun Katkere, Jennifer Schlenzig, Ramesh Jain

January 1995 **Proceedings of the first symposium on Virtual reality modeling language**

Full text available:  [pdf\(7.18 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)







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